



## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NUMBER 125974/GEM-0053 SERIAL NUMBER 10/065,595 FILED 11/1/2002  
FIRST INVENTOR: Darin R. Okerlund TITLE METHOD AND APPARATUS FOR MEDICAL  
INTERVENTION PROCEDURE PLANNING  
EXAMINER Smith, Ruth S. ART UNIT 3737

1. ☒ Applicant submits herewith a copy of (a) attached form PTO-1449, which lists all patents, publications, applications, or other information submitted for consideration by the Office; (b) a legible copy of each document required by 37 C.F.R. §1.98(b)(2).
2. ☐ Applicant herein apprises the Patent Office of references cited in a parent U.S. application from which this application obtains the benefit of an earlier filing date under 35 U.S.C. §120. The Serial Number of the parent application is U.S. Application \_\_\_\_\_ filed \_\_\_\_\_ and entitled \_\_\_\_\_.  
The publications cited therein are listed on attached Form PTO-1449. In accordance with 37 C.F.R. §1.98(d) copies of the listed publications are not required. ☐ Additional parent patent applications are listed on an attached sheet.
3. ☐ In accordance with 37 C.F.R. §1.98(a)(3), Applicant hereby certifies that for each reference not in English (**check at least one box below**):  
☐ A copy of a translation of one or more non-English document, or portion thereof, is provided herewith;  
☐ A concise explanation is (**check at least one box below**):  
☐ provided in the accompanying foreign or international search report; ☐ incorporated into the specification; and/or ☐ provided herewith.

### 37 C.F.R. §1.97(b)(1), (b)(2) – WITHIN 3 MONTHS OF FILING OR ENTRY IN NATIONAL STAGE

4. ☐ Since this Information Disclosure Statement is being filed within three months of the filing date of the subject application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, no fee or certification under 37 C.F.R. §1.97(e) is required.

### 37 C.F.R. §1.97(b)(3), (b)(4) – PRIOR TO MAILING OF FIRST OFFICE ACTION OR FIRST ACTION AFTER REQUEST FOR CONTINUED EXAMINATION

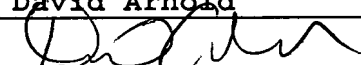
5. ☒ Since this Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114, no fee or certification under 37 C.F.R. §1.97(e) is required.

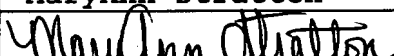
### 37 C.F.R. §1.97(c) – AFTER FIRST ACTION, BEFORE FINAL ACTION OR ALLOWANCE

6. ☐ Since this Information Disclosure Statement is being filed outside of the period provided for in 37 C.F.R. §1.97(b), but before the mailing date of a Final Rejection or Notice of Allowance, this submission is being accompanied by (**one of the following boxes must be checked**):
  - a. ☐ the fee required under 37 C.F.R. §1.97(c)(2) and specified in 37 C.F.R. §1.17(p).
  - b. ☐ the statement specified in 37 C.F.R. §1.97(e) (**Box 8 or 9 must be checked**).

### 37 C.F.R. §1.97(d) – AFTER FINAL REJECTION OR ALLOWANCE

7. ☐ Since this Information Disclosure Statement is being filed after the period specified in 37 C.F.R. §1.97(c), but on or before payment of the issue fee and is accompanied by both the statement specified in 37 C.F.R. §1.97(e) and the fee set forth in 37 C.F.R. §1.17(p). (**Box 8 or 9 must be checked.**)
8. ☐ In accordance with 37 C.F.R. §1.97(e)(1), Applicant's attorney certifies that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. ☐ The foreign or international search report(s) is/are enclosed.
9. ☐ In accordance with 37 C.F.R. §1.97(e)(2), Applicant's attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of the information disclosure statement.
10. ☒ In the event the Commissioner of Patents deems that any additional fee is required under 37 C.F.R. §§ 1.16 or 1.17 in connection with this application, Applicant's attorneys authorize that such fee be charged to Deposit Account No. 06-1130.
11. Consideration of this Information Disclosure Statement is respectfully requested.

|  |                                    |
|--|------------------------------------|
| Name: <u>David Arnold</u>  | Registration Number: <u>48,894</u> |
| Signature:  | Date: <u>05/03/2007</u>            |

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| CERTIFICATE OF MAILING OR TRANSMISSION: I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or [ ] facsimile transmitted to the Patent and Trademark Office to Facsimile No. _____ on the date shown below. |                         |
| Name: <u>MaryAnn Stratton</u>   | Date: <u>05/03/2007</u> |
| Signature:   |                         |



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| ATTY DOCKET NO.<br><b>125974/GEM-0053</b> | APPLICATION NO.<br><b>1065595</b> |
| APPLICANT(S)<br><b>Darin R. Okerlund</b>  |                                   |
| FILING DATE<br><b>11/1/02</b>             | GROUP ART UNIT<br><b>3737</b>     |

### U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE       | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|------------|----------------|-------|----------|-------------------------------|
|                      | 5601084 A       | 02/11/1997 | Sheehan et al. | 128   | 661.04   |                               |
|                      | 5903664 A       | 5/11/1999  | Hartley et al. | 382   | 154      |                               |
|                      |                 |            |                |       |          |                               |
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### U.S. PATENT APPLICATION PUBLICATIONS

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### FOREIGN PATENT DOCUMENTS

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|  |                 |            |         |       |          | YES         | NO |
|  | 1024584         | 05-06-2004 | NL      |       |          |             |    |
|  | 0135339 A2      | 5/17/2001  | WO      |       |          |             |    |
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### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |  |   |
|--|--|--|---|
|  |  |  | GENEVIEVE DERUMEAU et al., " Doppler Tissue Imaging Quantitates Regional Wall Motion During Myocardial Ischemia and Reperfusion,"Circulation Journal of the American Heart Association, Circulation 1998; 97; 1970-1977 |
|  |  |  | OLIVIER GERARD et al., " Efficient Model-Based Quantification of Left Ventricular Function in 3-D Echocardiography." IEEE Transactions on Medical Imaging, 21 (9): pp. 1059-68, September 2002.                         |

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|--|---|-----------------------------------|
| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i> | ATTY DOCKET NO.<br><b>125974/GEM-0053</b> | APPLICATION NO.<br><b>1065595</b> |
|  | Darin R. Okerlund                         |                                   |
|  | FILING<br><b>11/1/02</b>                  | GROUP ART<br><b>3737</b>          |

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| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i> |  |  |   |
|---|--|--|---|
|   |  |  | <b>WAHLE et al., " 3D Heart Vessel Reconstruction from Biplane Angiograms, IEEE Computer Graphics and Applications, "16(1): pp. 65-73, January 1996.</b>  |
|   |  |  | <b>HELMUT MAIR et al." Epicardial Lead Implantation Techniques for Biventricular Pacing via Left Lateral Mini-Thoracotomy," Video Assisted Thoracoscopy and Robotic Approach, The Heart Surgery Forum, 6(5): pp. 412-417, March 2003.</b> |

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**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

|  |  |   |
|--|--|---|
|  |  | <b>SORENSEN T S et al., : "A new virtual reality approach for planning of cardiac interventions," Artificial Intelligence in Medicine Elsevier Netherlands, Volume 22, Number 3, pp. 193-214, June 2001.</b>          |
|  |  | <b>BEHR J et al., "Modelling visualization, and interaction techniques for diagnosis and treatment planning in cardiology," Computers &amp; Graphics Elsevier UK, Volume 24, Number 5, pp. 741-753, October 2000.</b> |

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|---|--|--|--|
|   |  |  | SCHROEDER A et al., "Casevis-A System for Cardiac Surgery Planning," International Congress Series, Excerpta Medica, Amsterdam, NL, Volume 1191, pp. 656-660, June 23, 1999. |
|   |  |  | REMBOLD U et al: "Computer and Sensor Supported Surgery," Proceedings of the Annual Conference of the International Orthopaedic Surgery, June 25, 1997, pgs. 849-854.        |

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